

$$ax^2 + bx + c = 0$$

$$y = a(x-h)^2 + k \quad \text{Discriminant}$$

$$y = a(x-s)(x-t) \quad b^2 - 4ac$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad \text{Regression}$$

$y_i \sim ax_i + b$   
 $y_i \sim ax_i^2 + bx_i + c$

Nov 4-7:40 AM

## Appendix p 564 &amp; 565 Creating the Curve of Best Fit

## Creating Scatter Plots

1. Press STAT, ENTER(Edit Lists)
2. Enter Values under L1 and L2
3. Create Scatter Plot Press 2nd Y=
4. Press 1
5. Press ON (Enter)
6. Ensure proper Lists are displayed ie. L1 vs L2
7. Press Graph
8. Enter proper WINDOW or Zoom 9

## Creating Curve of Regression

1. Press STAT scroll to CALC
2. Press 5
3. Press 2nd 1, 2nd 2, VARS Scroll over to Y-Vars Press 1,1
4. Press Enter (COPY A, B, C values)
5. Press Graph

Calc 23 L2 L3

Oct 23-8:04 AM